

Application No. 09/883,705
Amdt. dated Feb. 23, 2004
Reply to FINAL Office action of Oct. 22, 2003

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently amended): A fire fighting composition ~~foam concentrate~~ comprising:
a fire fighting foam concentrate comprising,

foamable fire fighting agent, and [[:]]

water-soluble dye; and

glycol ether,

a diluent having, relative to pure water, a high level of at least one of

electrolyte, and

dissolved solid content;

a spectral property of a the fire fighting composition ~~foam mixture~~ comprising the
~~fire fighting foam concentrate and a diluent~~ being substantially proportional to, and
indicative of, the concentration of fire fighting agent in the fire fighting composition
~~foam mixture.~~

Claim 2 (Currently amended): The fire fighting composition ~~foam concentrate~~ of claim 1
where the foamable fire fighting agent comprises fluorosurfactant-based foamable fire
fighting agent.

Claim 3 (Currently amended): The fire fighting composition ~~foam concentrate~~ of claim 2
wherein the foamable fire fighting agent is alcohol resistant.

Claim 4 (Currently amended): The fire fighting composition ~~foam concentrate~~ of claim 2
where the foamable fire fighting agent is non-alcohol resistant fluorosurfactant-based
foamable fire fighting agent.

Application No. 09/883,705

Amdt. dated Feb. 23, 2004

Reply to FINAL Office action of Oct. 22, 2003

Claim 5 (Currently amended): The fire fighting composition ~~foam concentrate~~ of claim 2 further comprising hydrocarbon surfactant-based foamable fire fighting agent.

Claim 6 (Currently amended): The fire fighting composition ~~foam concentrate~~ of claim 1, the fire fighting foam concentrate comprising:

not more than 40% by weight of the foamable fire fighting agent, based on the weight of the fire fighting foam concentrate;

not more than 2% by weight of the water-soluble dye, based on the weight of the fire fighting foam concentrate; and

not more than 20% by weight of the glycol ether, based on the weight of the fire fighting foam concentrate.

Claim 7 (Currently amended): The fire fighting composition ~~foam concentrate~~ of claim 1, the fire fighting foam concentrate comprising:

not less than 1% by weight of the foamable fire fighting agent, based on the weight of the fire fighting foam concentrate;

not less than 0.0001% by weight of the water-soluble dye, based on the weight of the fire fighting foam concentrate; and

not less than 5% by weight of the glycol ether, based on the weight of the fire fighting foam concentrate.

Claims 8-11 (Canceled)

Claim 12 (Currently amended): A method of fighting a fire comprising:

mixing a fire fighting foam concentrate with a diluent to form a fire fighting composition, the fire fighting foam concentrate comprising, applying a fire fighting composition comprising: foamable fire fighting agent, and ~~and~~ ~~water soluble dye; glycol ether, and diluent,~~

Application No. 09/883,705
Amdt. dated Feb. 23, 2004
Reply to FINAL Office action of Oct. 22, 2003

evaluating a spectral property of the fire fighting composition, said -a spectral property of the fire fighting composition being substantially proportional to the concentration of foamable fire fighting agent in the fire fighting composition; and
applying the fire fighting composition when said evaluation indicates a desired mix ratio.

Claim 13 (Currently amended): A method of evaluating a fire fighting foam mix ratio, said method comprising:

- a) introducing into an aqueous liquid a fire fighting foam concentrate comprising:
foamable fire fighting agent;
~~glycol ether~~; and
water soluble dye,
to obtain a resultant mixture, a spectral property of the resultant mixture
being substantially proportional to the concentration of fighting
agent in the resultant mixture;
- b) obtaining a sample of the resultant mixture; ~~and~~
- c) comparing the spectral property of the sample to a pre-established standard; and
- d) determining, based on said comparison, the concentration of foamable fire fighting concentrate in the resultant mixture.

Claim 14 (Canceled):

Claim 15 (Original): The method of claim 13, wherein the spectral property comprises color intensity.

Claim 16 (Currently amended): A method of evaluating a fire fighting composition mix ratio, said method comprising:

- a. introducing into an aqueous liquid a fire fighting foam concentrate comprising:
foamable fire fighting agent; and

Application No. 09/883,705

Amdt. dated Feb. 23, 2004

Reply to FINAL Office action of Oct. 22, 2003

water-soluble dye,

to obtain a the fire fighting composition;

- b) obtaining a sample of the fire fighting composition; and
- c) comparing, at a particular wavelength, the absorption of light by the sample to the absorption of light by a pre-established standard, the absorption of light at the particular wavelength being substantially proportional to the concentration of foamable fire fighting agent in the fire fighting composition.

Claim 17 (Previously presented): The method of claim 16, further comprising:

- d) between steps a and b, foaming the fire fighting composition and permitting the foamed fire fighting composition to relax back into liquid form.

Claim 18 (Currently amended): The fire fighting composition ~~foam concentrate~~ of claim 1, comprising:

1% - 40% by weight of the foamable fire fighting agent, based on the weight of the fire fighting foam concentrate;

0.0001% - 2% by weight of the water-soluble dye, based on the weight of the fire fighting foam concentrate; and

5% - 20% by weight of the glycol ether, based on the weight of the fire fighting foam concentrate.

Claim 19 (Currently amended): The fire fighting composition ~~foam concentrate~~ of claim 1, further comprising: wherein the glycol ether comprises diethylene glycol butyl ether.

Claim 20 (Canceled)

Claim 21 (Currently amended): A method of evaluating a fire fighting composition mix ratio, said method comprising:

- a) introducing into an aqueous liquid a fire fighting foam concentrate comprising:

Application No. 09/883,705

Amdt. dated Feb. 23, 2004

Reply to FINAL Office action of Oct. 22, 2003

fluorosurfactant-based foamable fire fighting agent; and
water-soluble dye,

to obtain a fire fighting composition, a spectral property of the fire fighting composition being substantially proportional to the concentration of the fire fighting foam concentrate in the fire fighting composition;

- b) obtaining a sample of the fire fighting composition; and
- c) comparing the spectral property of the sample to a pre-established standard.

Claim 22 (Currently amended): A method of evaluating a fire fighting composition mix ratio, said method comprising:

- a) introducing into an aqueous liquid a fire fighting foam concentrate comprising:
foamable fire fighting agent;
~~glycol ether~~; and
water-soluble dye,

to obtain a fire fighting composition, a spectral property of the fire fighting composition being substantially proportional to the concentration of fire fighting foam concentrate in the fire fighting composition;

- b) obtaining a sample of the fire fighting composition; and
- c) comparing the spectral property of the sample to a pre-established standard.

Claim 23 (Previously presented): The method of claim 22, further comprising determining the concentration of fire fighting foam concentrate in the fire fighting composition.

Claims 24-26 (Canceled)

Claim 27. (Withdrawn - currently amended): The fire fighting composition foam concentrate of claim 1, the diluent comprising sea water.

Application No. 09/883,705
Amdt. dated Feb. 23, 2004
Reply to FINAL Office action of Oct. 22, 2003

Claim 28. (Canceled)

Claim 29 (New) The method of claim 12, further comprising:
determining, based on the evaluation, the concentration of the foamable fire
fighting agent in the fire fighting composition.